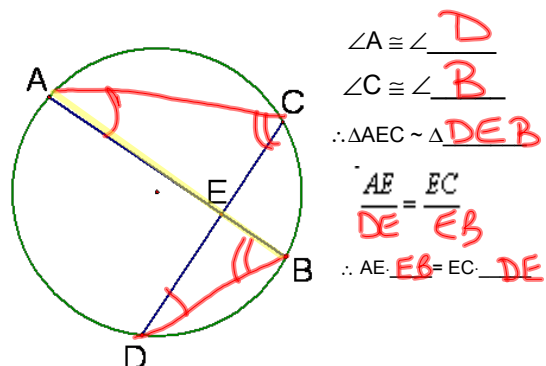
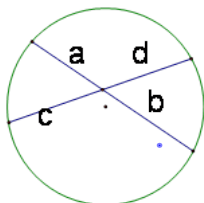


11-6
Properties of Chords
Part 2

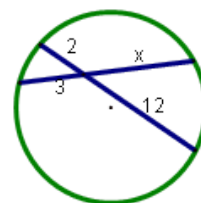


Theorem 11.11-If two chords intersect inside a circle, then the product of the lengths of the segments of one chord is equal to the product of the lengths of the segments of the other chord.

$$a \cdot b = c \cdot d$$

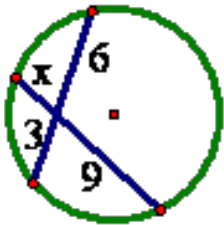


$$\begin{aligned}
 3x &= 2 \cdot 12 \\
 3x &= 24 \\
 x &= 8
 \end{aligned}$$



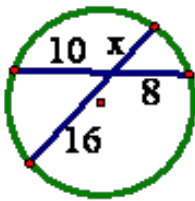
$9x = 3 \cdot 6$
 $9x = 18$
 $x = 2$

2.



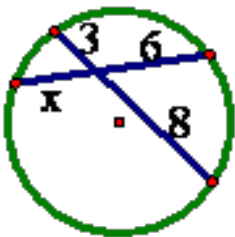
$16x = 10 \cdot 8$
 $16x = 80$
 $x = 5$

3.

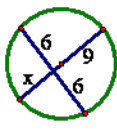


$6x = 3 \cdot 8$
 24
 $x = 4$

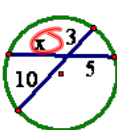
4.



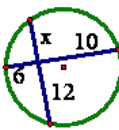
5.



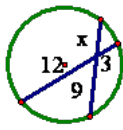
6.



7.



8.



$9x = 6 \cdot 6$
 36

$x = 4$

55

$5x = 3 \cdot 10$
 $x = 6$

$12x = 6 \cdot 10$
 $x = 5$

$9x = 3 \cdot 12$
 $x = 4$

HW

p622 #s 4-9

p623-624 #s 5-7, 20-22